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seek	AA	6,326,198	12/04/01	Emerson et al		-						
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	AC	5,811,094	09/22/98	Caplan et al								
	AD	5,646,043	07/08/97	Emerson et al	_	_						
	AE	4,135,975	01/23/79	Lichtman et al	<u> </u>	_						
	AF	4,514,499	04/30/85	Noll		` '						
	AG	4,861,714	08/29/89	Dean et al		-						
	АН	5,032,407	07/16/91	Wagner et al								
	- AL	5,605,822	02/25/97_	Emerson et-al		`						
	ĄJ	5,670,351	09/23/97	Emerson et al	-	-						
,	AK 4,481,946 11/13/84 Altshuler et al — ~											
	AL 4,714,680 12/22/87 Civin											
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	AX			itro Growth of Murine T Cells II. Growth ology, Vol. 121, No. 5. November 1978,			Cells Cytotoxic for					
	W. French ANDERSON, "Prospects for Human Gene Therapy", Science, Vol. 26, October 26, 1987, pp. 401-409											
4	AZ	T.M. Dexter, "The Messa	age in the me	edium", Nature, Vol. 309, June 1984, pp	746-747							
Examiner	2	Yarid a.	Sau	nden	Date Co	nsidered	10/9/02					
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sus	ВА	5,945,225	08/31/99	Speith-Herfurth et al	~				
	ВВ	5,670,147	09/23/97	Emerson et al					
/	вс	5,199,942	04/06/93	Gillis					
	BD	4,808,611	02/28/89	Cosman					
	BE	4,963,489	10/16/90	Naughton et al		_			
	BF	5,061,620	10/29/91	Tsukamoto et al	_	·—			
	BG	5,922,597	07/13/99	Verfaillie et al	_				
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	BI	4,810,643	03/07/89	Souza	_	-			
	BJ	4,965,204	10/23/90	Civin		-			
	ВК	5,851,832	12/22/98	Weiss et al	_	_			
	BL	5,635,386	06/03/97	Palsson et al	-				
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Sal	вw	Manfred R. Koller, et al.	"Expansion	of Primitive Human Hematopoietic Progiotechnology, Vol. 11, March,1993, pp. 3	enitors in a		Bioreacto	or System with	
	Bernhard O. PALSSON et al, "Expansion of Human Bone Marrow Progenitor Cells in a High Cell Density Continuous Perfusion System", Biotechnology, Vol. 11, March, 1993, pp. 368-372								
	Giovanni MIGLIACCIO et al., "In Vitro Differentiation of Human Granulocyte/Macrophage and Erythroid Progenitors:  Comparative Analysis of the Influence of Recombinant Human Erythropoietin, G-CSF, GM-CSF, and IL-3 in Serum-Supplemented and Serum-Deprived Cultures", Blood, Vol. 72, No. 1 July 1988, pp. 248-255								
V	BZ	lan K. McNiece et al., "S Vol. 73, No. 4 (March),		e Myeloid Synergistic Factor From 5637 9-923	′: Compari	son with In	terleukin-	1 Alpha", Blood,	
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		Jan A. NOLTA et al., Hur	nan Gene Ti	nerapy, 1:257-268 (1990)							
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	Rob E. Ploemacher et al., "Use of Limiting-Dilution Type Long-Term Marrow Cultures in Frequency Analysis of Marrow- DX Repopulating and Spleen Colony-Forming Hematopoietic Stem Cells in the Mouse", Blood, Vol 78, No. 10 (November 15, 1991, pp. 2527-2533									
	DY	Manfred R. Koller et al., "Effects of Synergistic Cytokine Combinations, Low Oxygen, and Irradiated Stroma on the Expansion of Human Cord Blood Progenitors", Blood, Vol 80, No. 2 (July 15, 1992), pp. 403-411								
V	J. AIKEN et al., Journal of Pediatric Surgery, Vol. 25, No. 1 (January), 1990; pp. 140-145									
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sal	EW	C. FAVRE et al., "Interleukin Vol. 1, January 1, 1990, pp. (		Basophilic and Ec	sinophilic Cell Gro	owth-Promoting	Activity on	Cord Blo	ood Cells", Blood,	
	EX	Yoichi TAKAUE et al., "Limiti Hydrocortisone on Hematopo								
	EY	Yoichi TAKAUE et al., "Effect of Recombinant Human G-CSF, GM-CSF, IL-3, and IL-1α on the Growth of Purified Human Peripheral Blood Progenitors", Blood, Vol. 76, No. 2, July 15, 1990, pp. 330-335								
1	EZ	H. J. Sutherland et al., "Alter Blood, Vol. 81, No. 6., March				l Factor Suppo	rt Primitive	Human I	Hematopoiesis",	
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Sul	FW	Lucia H. Coutinho et al., "Effects Granulocyte Macrophage-CSF, Blood, Vol. 11, June 1, 1990, pp	and	Recombinant Human Granulocyte Colony Gibbon Interleukin-3 on Hematopoiesis in 118-2129	-Stimulat Human	ting Factor Long-Term	(CSF), F Bone M	iuman Iarrow Culture",
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,	GX	Makio OGAWA, Ph.D., "Effects of North America, Vol. 3(3) Septemb		on Stem Cells in Vitro	', Hematology/C	Oncology Clinics of				
	GY	Jerry CALDWELL et al., "Culture Colony-Stimulating Factor Produc 147:344-353 (1991)								
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	НҮ	A.A. FAUSER et al., "Granuloerythropoietic Colonies in Human Bone Marrow, Peripheral Blood, and Cord Blood" Blood, Vol. 52, No. 6, December 1978, pp. 1243-1248							
V	HZ	C.D. MYERS et al., "A Cell Line Secreting Stimulating Factors for CFU-GEMM Culture", Blood, Vol. 64, No. 1 (July) 1984, pp. 152-155							
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	IX	Colin A. SIEFF et al., "Hur Hematopoietin" Science, \	nan Recor /ol. 230, 6	nbinant Granulocyte-Macrophage Colony December 1985, pp. 1171-1173	y-Stimulat	ing Factor:	A Multiline	age
	ΙΥ	Robert E. DONAHUTE et Science, Vol. 241, 30 Sep		n IL-3 and GM-CSF Act Synergistically in 88, pp. 1820-1823	n Stimulat	ing Hemato	ppoiesis in I	Primates",
J	ΙZ	1349-1356		ture Model for T Lymphocyte Clonal Ane	rgy", Scie	nce, Vol. 24	48, 15 June	1990, pp.
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	JX		characterization and Partial Purification of f, Blood, Vol. 74, No. 5 (October), 1989; pp			s Capable	e of Initiating	
٠	Sem SEELAND et al., "Combined and Sequential Effects of Human IL-3 and GM-CSF on the Proliferation of CD34+ JY Hematopoietic Cells From Cord Blood"., Blood, Vol. 73, No. 5, (April ), 1989: pp. 1195-1201							
4	JΖ	Sallie S. BOGGS, "Targeted Gene 96 (1990)	Modification for Gene Therapy of Stem Co	elis", Inter				
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Sal	NW	P.M. LEHN., "Gene therapy using t 5. pp. 287-293	one marrow transplantation: a 1990 upd	ate", Bone	Marrow Tr	ansplantation (1990), No.	
	NX	Manfred R. KOLLER et al., "Benefi Cultures", Biochemical Engineering 1992)	cial Effects of Reduced Oxygen Tension , VII, Vol. 665 of the Annals New York A	and Perfus cademy of	sion in Long Sciences,	g-Term Hematopoietic pp. 105-116, (October	
	NY	D. KRUMWIEH et al., "Human Rec Monkeys", Behring Inst., Mitt., No.	ombinant Derived IL-3 and GM-CSF in H 83, pp. 250-257 (1988)	lematopoie	esis of Norr	mal Cynomolgus	
	NZ		Human Hematopoietic Progenitor Cell C perimental Medicine and Biology, Vol. 24			ast Cell Containing	
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1	ох	Masaaki ISHIZUKA et al., "Mitogen 1980), pp. 653-662	ic Effect of Bestatin on Lymphocytes", Th	e Journal	of Antibioti	ics, Vol. 33	3, No. 6, (June
	OY	Donald B. Kohn Ph.D. et al., "Gene	Therapy for Genetic Diseases", Cancer	Investigat	ion, 7(2), p	p. 179-192	! (1989)
	oz	Maria PODOLAK-DAWIDZIAK et a the Growth of Megakaryocyte Colo	I., "Does Human Bladder Carcinoma Cel nies (CFU-Mk) in Cultures of Human bon	Line 563' e Marrow'	7-Condition , Haemato	ned Mediur logia, 23:1	n Supplement 21-123
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V	PZ	Yves-Jacques SCHNEIDE Journal of Immunological	R et al., "I Methods, '	Monoclonal Antibody Production in Se Vol. 129 (1990) pp.251-268	mi-Continuo	us Serum-	and protein-free culture",			
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	QХ	Suzanne GARTNER et al 4756-4759, August 1980	., "Long-te	rm culture of human bone marrow cells	", Proc. Na	tl. Acad. So	si. USA, V	ol. 77, No. 8, pp.
	QY	Kenneth C. EHRLICH et a 443-450	al., "Artifici	al Capillary Perfusion Cell Culture: Meta	abolic Stud	ies", In Vitr	o, Vol. 14	, No. 5, 1978, pp
l	QX	B. R. JORDAN et al., "Tra 171, 1983	ansformation	on of Murine LMTK-Cells with Purified h	ILA Class	Genes", Ir	nmunoge	netics , 18:165-
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	RX	Steven A. ROSENBERG et al., "I Alloantigens", The Journal of Imm							Cells C	ytotoxic for
	RY	James Frank PARSONS et al., "I Perfusion Fluid Suitable for Isolat 073-089 (1982)	n Vi ed I	itro Cell Perfusion Mast Cell and Ma	n. 1. System for C crophage Studies	Continu s", Jou	ous Obse	ervation of one	Cells an	d Analysis of thods Vol. 8. pp.
V	RZ	S. R. ADAMSON et al., "Industria August 1986, pp. 531-539	l Ma	ammalian Cell Cu	ilture", The Canad	dian Jo	ournal of (	Chemical E	ngineer	ring, Vol. 64,
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sul	sw	Avshalom MIZRAHI, "Production 108-112	of l	Biologicals from Animal Cells an Overvie	w", Proces	ss Biochen	nistry, (A	ugust 1986), pp.	
	sx	Differences" In Long-Term Bone	Ma	of Hematopoiesis in Long-Term Bone Ma rrow Culture, Kroc oundation Series Vol. California, September 12-16, 1983	arrow Cult 18, Proce	ure: Comp eding of a	arison of Sympos	Species ium Held at the	
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DW	sz	Connie J. Eaves et al., "Methodo 1991	olog	of Long-Term Culture of Human Hemop	poietic Ce	lls", J. Tiss	. Cult. M	eth 13:55-62,	
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